Reply to Office Action of 08/02/2006 Appl. No.: 10/709,522

Amendment Dated: 10/11/2006 Attorney Docket No.: ORCL-003/OID-2003-253-01

Listing of Claims

1 2

Claim 1 (Currently Amended): A method of implementing an atomic transaction using a program logic, said method comprising: requesting in said program logic a transaction identifier for said atomic transaction; generating said transaction identifier in a transaction manager in response to said requesting; specifying in said program logic a plurality of combinations for execution in a sequential order, wherein each of said plurality of combinations contains said transaction identifier, a task procedure, and a roll-back rollback procedure, wherein said task procedure implements a part of said atomic transaction and said roll-back rollback procedure is designed to roll-back rollback said task procedure; executing said task procedures in said sequential order; keeping track of said roll-back rollback procedures in a reverse order of said sequential order if said atomic transaction is to be aborted, wherein said roll-back rollback procedures are identified according to said keeping.

Claim 2 (Original): The method of claim 1, wherein said transaction identifier is unique to each of the atomic transactions.

Claim 3 (Currently Amended): The method of claim 1, wherein said keeping comprises storing data representing said roll-back rollback procedures in a stack.

Claim 4 (Original): The method of claim 3, wherein said stack is stored in a memory.

Claim 5 (Original): The method of claim 1, further comprising examining a status returned by execution of one of said task procedures and performing said aborting if said status indicates an error.

Claim 6 (Original): The method of claim 1, wherein said aborting is performed asynchronously.

Claim 7 (Currently Amended): A computer readable medium carrying one or more sequences of instructions representing a program logic for execution on a system, said

to be executed.

program logic implementing an atomic transaction, wherein execution of said one or more sequences of instructions by one or more processors contained in said system causes said one or more processors to perform the actions of: requesting an identifier for said atomic transaction; setting a variable to equal said identifier; specifying a plurality of combinations for execution, wherein each of said plurality of combinations contains said transaction identifier, a task procedure, and a roll-back rollback procedure, wherein said task procedure implements a part of said atomic transaction and said roll-back rollback procedure is designed to roll-back rollback said task procedure; and aborting said atomic transaction by specifying said identifier associated with an abort procedure to cause said roll-back rollback procedures

Claim 8 (Original): The computer readable medium of claim 7, wherein said specifying comprises including each of said plurality of combinations in a single procedure call.

Claim 9 (Original): The computer readable medium of claim 7, further comprising examining a status returned by execution of one of said task procedures and performing said aborting if said status indicates an error.

Claim 10 (Currently Amended): A computer readable medium carrying one or more sequences of instructions for supporting implementation of an atomic transaction in a system, wherein execution of said one or more sequences of instructions by one or more processors contained in said system causes said one or more processors to perform the actions of: generating an identifier for said atomic transaction; receiving a plurality of combinations for execution, wherein each of said plurality of combinations contains said transaction identifier, a task procedure, and a roll-back rollback procedure, wherein said task procedure implements a part of said atomic transaction and said roll-back rollback procedure is designed to roll-back rollback said task procedure; executing said task procedures; and executing said roll-back rollback procedures in response to receiving an abort request.

Claim 11 (Currently Amended): The computer readable medium of claim 10, wherein

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said task procedures are executed in an	execution order and correspon	nding roll-back <u>rollback</u>

procedures are executed in a reverse order of said execution order.

1 2

Claim 12 (Currently Amended): The computer readable medium of claim 11, further comprising storing data indicating that said roll-back rollback procedures are to be executed in said reverse order to abort said atomic transaction.

Claim 13 (Currently Amended): The computer readable medium of claim 12, wherein said <u>transaction</u> identifier is generated to be unique for each atomic transaction.

Claim 14 (Original): The computer readable medium of claim 12, wherein said data is represented in the form of a stack.

Claim 15 (Original): The computer readable medium of claim 14, wherein said stack is stored in a memory.

Claim 16 (Currently Amended): A computer system comprising: a memory storing a plurality of instructions; and a processing unit coupled to said memory and executing said plurality of instructions to support implementation of an atomic transaction in a programming environment, said processing unit being operable to: request in a program logic a transaction identifier for said atomic transaction; generate said transaction identifier in a transaction manager in response to said requesting; specify in said program logic a plurality of combinations for execution in a sequential order, wherein each of said plurality of combinations contains said transaction identifier, a task procedure, and a roll-back rollback procedure, wherein said task procedure implements a part of said atomic transaction and said roll-back rollback procedures in said sequential order; keep track of said roll-back rollback procedures in said sequential order; keep track of said roll-back rollback procedures in a reverse order of said sequential order if said atomic transaction is to be aborted, wherein said roll-back rollback procedures are identified according to said keeping.

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1	Claim 17 (Original): The computer system of claim 16, wherein said transaction		
2	identifier is unique to each of the atomic transactions.		
1	Claim 18 (Currently Amended): The computer system of claim 16, wherein said		
2	processing unit is operable to store data representing said roll-back rollback procedures in a		
3	stack to perform said keep.		
1	Claim 19 (Original): The computer system of claim 18, wherein said stack is stored		
2	in a memory.		
1	Claim 20 (Original): The computer system of claim 16, wherein said processing unit		
2	is further operable to examine a status returned by execution of one of said task procedures		
3	and to perform said aborting if said status indicates an error.		
1	Claim 21 (Currently Amended): The computer system of claim 16, wherein said		
2	processing unit is operable to execute said roll-back rollback procedures asynchronously.		